

# Data Analysis Scavenger Hunt

**Instructions:** Pages 14-15 in your textbook list and describe several ways to organize and analyze data. Find the examples of data posted around the classroom, and use them to answer the questions below.

## I. Venn diagram

- a. What characteristics are the **same** for both fish and reptiles?
  
  
  
  
  
  
- b. How are fish and reptiles **different** from each other?

## II. Bar graph

- a. Which pet is owned by the most people?
  
  
  
  
  
- b. How many people own goldfish?
  
  
  
  
  
- c. Which pet is owned by the LEAST number of people?
  
  
  
  
  
- d. What is the **TOTAL number of pets** represented on the graph?

## III. Data table

- a. What might be a good title for this table?
  
  
  
  
  
  
  
  
  
  
- b. Which teacher in the Science department teaches only ELA classes?

- c. **When** is the English department's **common planning period**?
- d. Web Design is a class offered by which **department**?
- e. In the World Language department, who is the **only Japanese** teacher?
- f. Who is the chair of the Math department?
- g. Two teachers in the Social Studies department teach only one class.
  - 1. Name the two teachers.
  - 2. Which **class** do they teach (hint: it's same!)?

#### IV. Line graph

- a. What information is shown in the graph?
- b. **How many years** are represented on the graph?
- c. What happened to the population of Boston between 1900 and 1950?
- d. During which **two years** was the population nearly the **same**?
- e. In which year was Boston's population the highest?

#### V. Flow chart

- a. What is the main idea of the flow chart?
- b. What should you do if the lamp is not plugged in?

- c. If the lamp is plugged in, what should you check next?
- d. The lamp is plugged in and you have replaced the bulb, but it still doesn't work. According to the flow chart, what is the final step?

## VI. Map

- a. On which side of the park would you find the swings? **Be specific!**
- b. How many benches are in the park?
- c. Which is the only side of the park that does NOT have any trees?
- d. What feature surrounds the duck pond?
- e. If you started at the seesaw and walked directly west, what feature of the park would you find **first**?

## VII. Pie chart

- a. What might be a good title for this chart?
- b. Which food represents approximately  $\frac{1}{3}$  of the pie chart?
- c. Which food represents the smallest part of the chart?
- d. What is the **total percentage** of items in the pie chart?

**VIII. Graph poster (classroom wall between the windows)**

- a. What is a pictograph?
- b. According to the pie chart, **what percentage** of items sold in December were **movie tickets**?
- c. The bar graph shows the number of items that were sold in December.
  1. How many **coupon books** were sold?
  2. Which **two items** both sold the **same number**?
  3. What information is given on the **y-axis**?
- d. Look at the line graph:
  1. When do we use a line graph?
  2. In which **month** were the **LEAST** number of items sold?
  3. How many items were sold in **January**?
  4. What information is given on the **x-axis**?
- e. Study the pictograph **CLOSELY**. In the month of December:
  1. How many pizzas were sold?
  2. How many flower seeds were sold?